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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,362	10/20/2003	Yasushi Toda	17128	4392
SCULLY SCOTT MURPHY & PRESSER, PC 400 GARDEN CITY PLAZA			EXAMINER	
			WU, JIANYE	
SUITE 300 GARDEN CITY, NY 11530		ART UNIT	PAPER NUMBER	
			2416	
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			01/30/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/689,362	TODA, YASUSHI				
Office Action Summary	Examiner	Art Unit				
	Jianye Wu	2416				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 12 No	ovember 2008.					
•	• • • • • • • • • • • • • • • • • • • •					
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-5 and 8-30</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)  Claim(s) <u>1-5 and 8-21</u> is/are allowed.						
6)⊠ Claim(s) <u>22-30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
a)						
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Gee the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

Application/Control Number:

Page 2

#### **DETAILED ACTION**

### Response to Arguments/Amendments

- 1. Applicant's arguments filed 11/12/08 have been fully considered. The arguments are not persuasive.
- 2. Applicant argues:
- a) "Wright does not teach or suggest high utilization frequency parameters, and does not teach or suggest coding and decoding function parts, so that Wright does not teach or suggest high utilization frequency parameters that are read out and utilized by the coding and decoding function part" (page 16, 1<sup>st</sup> full paragraph);
- b) "Akamine does not overcome this deficiency ... Alamine does not teach or suggest each feature of independent claims 22-24 and claims 28-30" (page 16, 2<sup>nd</sup> full paragraph);
- c) "the combination of 3GPP331 and Wright is inappropriate because Wright is not analogous art" (page 17, 1<sup>st</sup> full paragraph);
- d) "Wright is not reasonably pertinent to the problem with which applicant is concerned ... Wright is not pertinent to a data terminals and the problem of saving power in a data terminal" (page 17, 2<sup>nd</sup> full paragraph).

In response, Examiner respectfully disagrees:

a) As pointed out in Office Action that 3GP331 teaches CDMA encoding and decoding, but is silent on storing parameters used for coding and decoding in non-volatile memory for quick retrieval. Wright teaches the **principle** of storing parameters

10/689,362

Art Unit: 2416

in non-volatile memory for quick retrieval. One skilled in the art would be motivated to apply the principle taught by Wright to the CDMA encoding and decoding disclosed by 3GP331 to store the parameters needed for coding and decoding in non-volatile memory for quick retrieval. Please notice that the principle taught by Wright can be applied to any parameters used for any processes that use the parameters;

- b) Applicant's argument is moot because Akamine (or Alamine) is not used as a reference in rejections to claims 22-24 and claims 28-30 in the Office Action;
- c) Both 3GPP331 and Wright teach a process implemented in a computer system. They both belong to the same analogous art.
- d) A data terminal is a computer system, which is the same as the system taught by Wright. Saving power in a computer system is always desirable. Therefore, Wright is pertinent to the data terminal disclosed by 3GPP331 and application.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

Art Unit: 2416

- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 22-25, 27-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over "UMTS RRC Protocol specification", V4.0.0.0, 2003-03 (hereinafter 3GPP331) in view of Wright et al (US 2002/0044014 A1, hereinafter Wright).

For Claim 22-24 and 27, 3GPP331 discloses a data communication method in a communication system comprising a transmitting side and a receiving side data communication terminal device (UE, Fig. 2, Page 30) each having a communication function adopting a code division multiple access (CDMA) system (the UE implementing cdma2000, Section 8.3.7.3, page 149), wherein:

a coding function part (DCFE in Fig. 2, Page 30; or 4th item of Section 4.2, Page 29) in the transmitting side data communication terminal device and a decoding function part in the receiving side data communication terminal device calculate ("UE shall perform decoding ...", Line 4 of Section 8.1.1.1.4, Page 42, notice that decoding involves calculating), in calculating processes, parameters necessary for a coding and a decoding process in the coding and decoding (codes used coding and decoding in CDMA) function parts (means for generating the codes in UE, Fig. 2, Page 30), respectively, according to designated transport format utilization frequency data (the data of the bandwidth of specified frequency used for CDMA channel).

3GPP331 does not explicitly teach the coding and decoding function parts hold the calculated parameters in their own storage function parts, and for high utilization frequency parameters the coding and decoding function parts read out and utilize

Application/Control Number:

10/689,362

Art Unit: 2416

parameters held in the storage function parts without doing re-calculation, thus reducing power consumption necessary for calculation.

Wright discloses a non-volatile memory for storing parameters ("parameter are held in non-volatile memory", [0129]), including high utilization frequency parameters.

One of advantages of storing parameters in a memory is to avoid doing re-calculation of these parameters for the saving of power ("power is switched off", [0129], but the value is still saved) and for the fast access ("rapid switches", [0294]).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify 3GPP331 to include non-volatile memory for storing process parameters as disclosed by Wright or the benefit of saving power and fast accessing to the parameters.

For claims **28-30**, they are the computer corresponding computer readable medium claims of claims 22-24 as disclosed by 3GPP331 in view of Wright.

3GPP331 does not disclose computer readable medium.

Wright discloses computer readable medium (non-volatile memory, [0129]) that can be used to store instructions for implementing the method of claim 22-24.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify 3GPP331 to include non-volatile memory for storing process parameters as disclosed by Wright for the benefit of saving power and fast accessing to the parameters.

As to **claim 25**, 3GPP331 in view of Wright discloses claims 23 and 24, 3GPP331 further discloses the updating of the parameter data held in the storage

Art Unit: 2416

function part and the utilization frequency are managed, and the presence/absence data of discrete control channel (DCCH, Section 7.2.2.2, line 3, page 35) data and the transport format combination indicator (TFCI) (*TFCI range method*, Section 10.3.5.14, Page 371) as a combination of the maximum and minimum ones of discrete traffic channel transport formats (DTCH, , Section 7.2.2.2, line 3, page 35) are stored.

3GPP331 in view of Wright is silent on HCCH data and TFCI for DTCH are preferentially stored in the storage function part, while the remainder of the pertinent parameters of the other TFCIs are selectively stored according to the utilization frequency thereof.

However, the concept and advantage of storing different data in different places according to their priority or other criterions are well known in the art (such as cash memory and main memory mechanism widely used in the computer system), Examiner takes an official notice with this notion.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to preferentially store HCCH data and TFCI for DTCH in the storage function part, and the remainder of the pertinent parameters of the other TFCIs are selectively stored according to the utilization frequency for the benefit of achieving optimal performance.

Claim 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over 3GPP331) in view of Wright, further in view of Akamine et al (US 2003/0064696 A1, hereinafter Akamine).

As to **claim 26**, 3GPP331 in view of Wright discloses claims 23 to 24, but is silent on the preference rank of the parameter to be applied is updated according to the transport rate control data or a receiving sensitivity data given from the network.

In the same field of endeavor, Akamine teaches selecting parameter based on receiving sensitivity ("These assumed values are based on the minimum receiving sensitivity", [0109]).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the method disclosed by 3GPP331 and Wright using the way of selecting parameters based on receiving sensitivity for the benefit of achieving optimal performance.

# Allowable Subject Matter

5. Claims 1-5 and 8-21 are allowed.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jianye Wu whose telephone number is (571)270-1665. The examiner can normally be reached on Monday to Thursday, 8am to 7pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571)272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

10/689,362 Art Unit: 2416

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/Jianye Wu/ Examiner, Art Unit 2416

/Kevin C. Harper/ Primary Examiner, Art Unit 2416